

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054445 A1

(51) International Patent Classification⁷: C12N 5/00, 5/02, 15/00, 15/09, 15/63, 15/70, 15/74, 15/85, 15/87, A01K 67/00, 67/033, 67/027

(21) International Application Number:
PCT/US2004/037925

(22) International Filing Date:
12 November 2004 (12.11.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

— with international search report

(30) Priority Data:
60/524,466 24 November 2003 (24.11.2003) US
60/604,450 25 August 2004 (25.08.2004) US

(88) Date of publication of the revised international search report: 11 August 2005

(71) Applicant (for all designated States except US): THE ROCKEFELLER UNIVERSITY [US/US]; Office of Technology Transfer, 1230 York Avenue, New York, NY 10021-6399 (US).

(48) Date of publication of this corrected version: 6 October 2005

(72) Inventors; and
(75) Inventors/Applicants (for US only): FUCHS, Elaine [US/US]; 430 East 63rd Street, Apt. 12A, New York, NY 10021 (US). TUMBAR, Tudorita [RO/US]; 500 East 63rd Street, Apartment 22J, New York, NY 10021 (US). BLANPAIN, Cedrick [BE/US]; 500 East 63 rd Street, Apartment 25k, New York, 10021 (US). LOWRY, William, E. [US/US]; 450 East 63rd Street, Apartment 1G, New York, NY 10021 (US).

(15) Information about Corrections:
see PCT Gazette No. 40/2005 of 6 October 2005, Section II
Previous Correction:
see PCT Gazette No. 32/2005 of 11 August 2005, Section II

(74) Agents: LICATA, Jane, Massey et al.; Licata & Tyrrell PC, 66 E. Main Street, Marlton, NJ 08053 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD FOR ISOLATING A SELF-RENEWING, MULTIPOTENT SLOW-CYCLING CELL

(57) Abstract: The present invention relates to methods for isolating infrequently-dividing, slow-cycling cells, a feature which is typical of stem cells in their niche. The methods of the present invention are advantageously used as classical stem cells can be isolated. Further provided are methods for generating clonal populations and inhibiting the differentiation of these cells. In addition markers for distinguishing these cells from progenitor cells are also disclosed.

WO 2005/054445 A1